

Claims

1. A device for fixing a thin and/or flexible substrate, comprising a holding device for placing and holding a substrate on its bearing surface in which notches and/or holes, which communicate with each other and with a vacuum device, are formed, wherein

a plurality of microgrooves, which communicate with the notches and/or holes, are provided in the bearing surface.

2. The device according to claim 1, wherein the microgrooves have a width of 80 to 160 μm , preferably of 100 to 140 μm , particularly preferably a width of 120 μm .

3. The device according to claim 1, wherein the microgrooves have a depth of 30 to 70 μm , preferably of 40 to 60 μm , particularly preferably a depth of 50 μm .

4. The device according to claim 1, wherein the microgrooves are formed on the device as segments of a circle, wherein the radius is 40 to 100 mm, preferably 60 to 80 mm, particularly preferably 70 mm.

5. The device according to claim 1, wherein the

distance between the microgrooves is 0.1 to 0.2 mm, preferably 0.15 mm.

6. The device according to claim 1, wherein the notches are formed as slots extending transversely with respect to the direction of the microgrooves.

7. The device according to claim 6, wherein the notches have a length of 1 to 3 cm and a width of 0.2 to 0.5 mm.

8. The device according to claim 1, wherein, depending on the size of the substrate to be sucked up, optionally only a part of the notches and/or holes is connectible with the vacuum device.

9. The device according to claim 1, wherein the bearing surface is hardened.

10. The device according to claim 1, wherein the bearing surface is eloxed black or provided with a hard coating.

11. The device according to claim 1, wherein the holding device or its surface is made of aluminum.